

FIG. 1

```

* 1. productive class :
* defination
class OPERATIONS definition.
  public section.
    class-methods:
      ADD importing A type I
      B type I
      returning VALUE (RESULT) type I.
endclass.

* implementation
class OPERATIONS implementation.
  method ADD.
    RESULT = A + B.
  endmethod.
endclass.

* 2. test class:
* definition
class TEST_OPERATIONS definition for testing.
  public section.
    methods TEST_ADD for testing.
endclass.

* implementation
class TEST_OPERATIONS implementation.
  method TEST_ADD.
    * test data: variable needed to store the result from the productive method
    data: ACTUAL_RESULT type I.
    * call the method under test:
    ACTUAL_RESULT = OPERATIONS=>ADD ( A = 3 B = 5 ).
    * compare the result with the expected value:
    CL_AUNIT_ASSERT=>ASSERT_EQUALS (
      ACT = ACTUAL_RESULT
      EXP = 8
      MSG = 'this is the message which occurs if the test failed'
    ).
  endmethod.
endclass.

```

FIG. 2

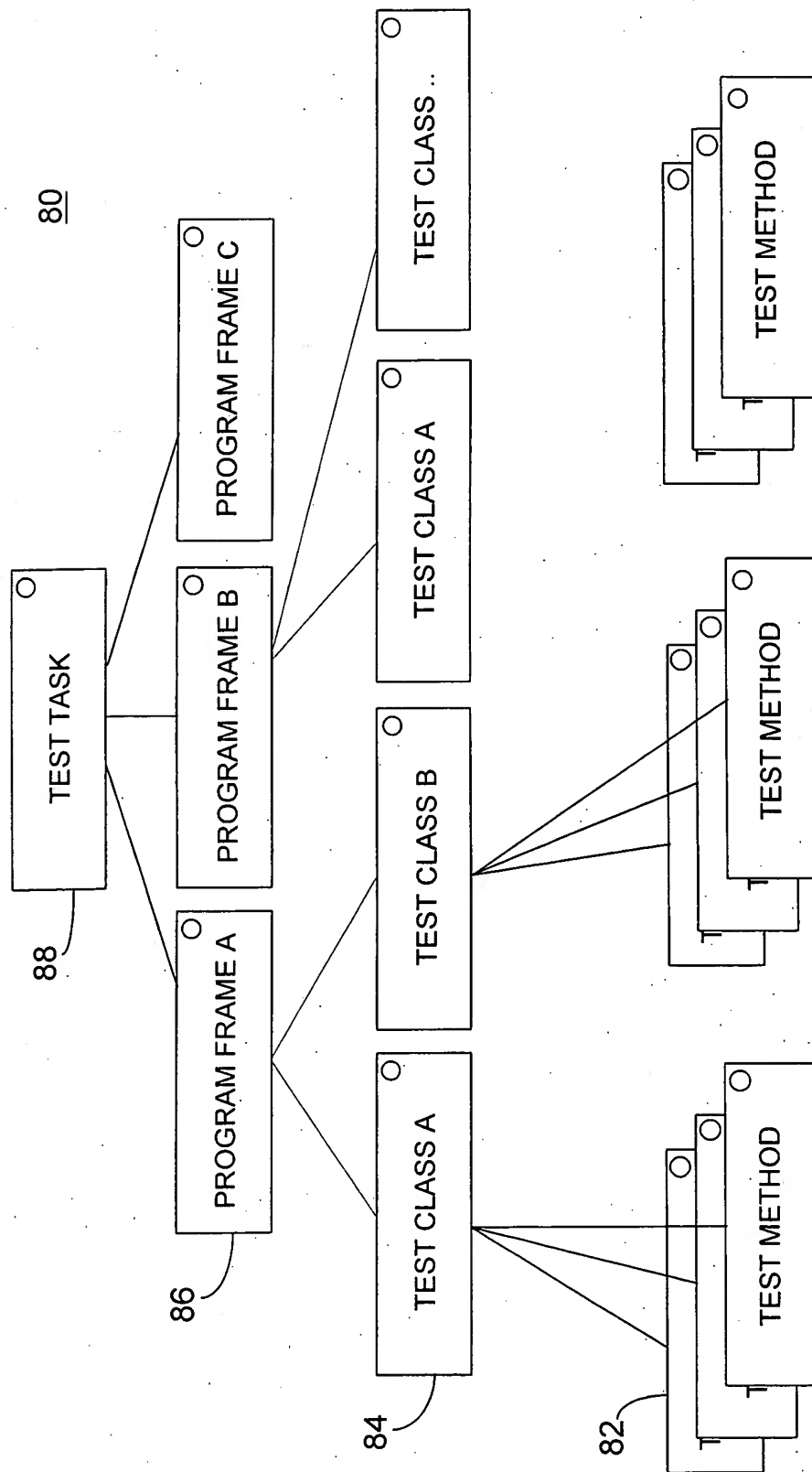


FIG. 3

56
ASSERT_EQUALS (ACT = ACTUAL RESULT
EXP = EXPECTED_RESULT
MSG = 'this test has failed'
QUIT = QUIT_VALUE).
57 58

Where QUIT_VALUE defines at which level the test flow should be interrupted:

- NO: continue the current test method.
- METHOD: interrupt the current test method.
- CLASS: interrupt the test class execution.
- PROGRAM: abandon all test class executions of the currently tested program frame.

FIG. 4

